

California Ambient Dioxin Air Monitoring Program Site Summary

Livermore

This page updated on July 17, 2002

Site Location:

Monitoring for the California Ambient Dioxin Air Monitoring Program (CADAMP) in the Livermore area is being conducted at 2614 Old 1st Street. This location is in a highly populated, light industrial area near two major freeways. This site is part of the Bay Area Air Quality Management District's (BAAQMD) monitoring network for criteria and toxic pollutants.

Site Approval:

The BAAQMD agreed to collocate the CADAMP dioxin sampler with their criteria and toxic monitors for this program.

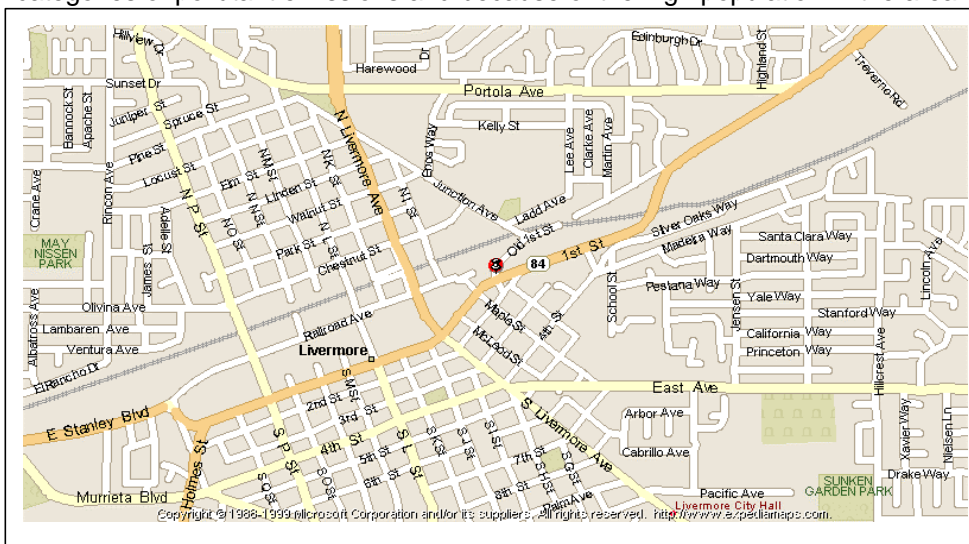
Monitoring Start Date:

Collection of samples for ambient air quality analysis for CADAMP began in December 2001.



Reason for Choosing Livermore:

Livermore was chosen as one of the nine sites for dioxin monitoring because it is impacted by several categories of pollutant emissions and because of the high population in the area. Livermore is located



near two high traffic freeways, I-680 upwind and I-580 which transects the Livermore Valley. This site is in an area with the highest number of days exceeding the state ozone air quality standard and reported the second highest annual average concentration of PM₁₀ in the SF Bay Area Air Basin (1999). This fast

growing area (Tri-Cities Area) is located downwind of emissions from the central Bay Area.

Emission Sources:

Major freeways to the north and west of Livermore are significant sources of vehicle emissions. Other sources include the Livermore Municipal Airport located 3 miles Northwest of the city of Livermore.

Monitoring Parameters:

Dioxin-like compounds that will be monitored for CADAMP include dioxins, furans and congener specific PCBs. A total of 31 compounds will be evaluated each month.

Monitoring Schedule:

The dioxin sampler will be run for 28 consecutive days each month for the duration of the project. Quartz fiber filters and polyurethane foam (PUFs) comprise the sampling media. Filters will be collected and replaced every 6th day. PUFs will be collected on the 28th day. Filters and PUFs will be composited for a single monthly sample analysis.

Anticipated End Date:

The ARB anticipates that the ambient air monitoring will continue at Livermore for 2 years, ending after December 2003.

Agencies/Resources/Roles:

The ARB is the lead agency for the California Ambient Dioxin Air Monitoring and has overall responsibility for the project. The Bay Area Air Quality Management District (BAAQMD) provided assistance in selecting the Livermore station and will perform all routine sample collection tasks. A laboratory under contract to the ARB will perform analysis of samples collected at Livermore. Staff in the ARB Monitoring and Laboratory Division, Quality Management Branch (Operations Planning and Assessment Section) will have the lead role in coordinating sampling, tracking the project, validating the data, conducting quality control and quality assurance activities and writing the quarterly reports. ARB's Stationary Source Division (SSD) will evaluate ambient concentrations to prioritize risk management strategies. Data will be shared with the U.S. EPA and the BAAQMD.

Connection to Other Air Resources Board Programs:

The BAAQMD is collecting samples routinely for air toxic measurements as part of their air toxic network at this Livermore site. Monitoring is currently being performed for NO₂, ozone, particulates (PM₁₀, PM_{2.5}, TEOM), total hydrocarbons, and methane.

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